

18V 3/8" CORDLESS DRILL

Model 67024

SET UP AND OPERATING INSTRUCTIONS



Due to continuing improvements, actual product may differ slightly from the product described herein.

Distributed exclusively by Harbor Freight Tools®.

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Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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For technical questions or replacement parts, please call 1-800-444-3353.

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

Safety Alert Symbol and Signal Words

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

▲ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

AWARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION, used

ACAUTION

with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE. **ELECTRIC SHOCK, OR** INJURY TO PERSONS

WARNING – When using tools, basic precautions should always be followed, including the following:

General Power Tool Safety Warnings



WARNING Read all safety warnings and instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mainsoperated (corded) power tool or battery-operated (cordless) power tool

- Work area safety
 - a. Keep work area clean and well lit. Cluttered or dark areas invite accidents
 - b. Do not operate power tools in explosive atmospheres, such as in

- the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- c. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2. Electrical safety

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

3. Personal safety

- a. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b. Use personal protective equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. Prevent unintentional starting.
 Ensure the switch is in the offposition before connecting to
 power source and/or battery pack,
 picking up or carrying the tool.
 Carrying power tools with your finger
 on the switch or energizing power
 tools that have the switch on invites
 accidents.
- d. Remove any adjusting key or wrench before turning the power

- **tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e. Do not overreach. Keep proper footing and balance at all times.

 This enables better control of the power tool in unexpected situations.
- f. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- g. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

4. Power tool use and care

- a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b. Do not use the power tool if the switch does not turn it on and off.

 Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

- d. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- 5. Battery tool use and care
 - a. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
 - b. Use power tools only with specifically designated battery packs.

 Use of any other battery packs may create a risk of injury and fire.
 - c. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.

- Shorting the battery terminals together may cause burns or a fire.
- d. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

6. Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Specific Safety Warnings

- Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
- 2. Wear ear protectors when using the Drill. Exposure to noise can cause hearing loss.
- Avoid unintentional starting. Prepare to begin work before turning on the tool.
- 4. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
- 5. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
- 6. Do not handle the Drill with wet hands.

7. The battery charger gets hot during use. The charger's heat can build up to unsafe levels and

create a fire hazard if it does not receive adequate ventilation, due to an electrical fault, or if it is used in a hot environment.

Do not place the charger on a flammable surface. Do not obstruct any vents on the charger. Especially avoid placing the charger on carpets and rugs; they are not only flammable, but they also obstruct vents under the charger.

Place the charger on a stable, solid, nonflammable surface (such as a stable metal workbench or concrete floor) at least 1 foot away from all flammable objects, such as drapes or walls. Keep a fire extinguisher and a smoke detector in the area. Frequently monitor the charger and battery while charging.

- 8. This product is not a toy. Keep it out of reach of children.
- People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
 - Avoid operating alone.
 - Do not use with power switch locked
 - Properly maintain and inspect to avoid electrical shock.
- WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer,

- birth defects or other reproductive harm. Some examples of these chemicals are:
- Lead from lead-based paints
- Crystalline silica from bricks and cement or other masonry products
- Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, et seq.)

- 11. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.
- 12. Please refer to the complete safety warnings and instructions detailed in the instruction manual for the 67029 Charger, which is included with this Drill, before charging.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

- 1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical checkups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
- Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
- 3. Wear suitable gloves to reduce the vibration effects on the user.
- 4. Use tools with the lowest vibration when there is a choice.
- 5. Include vibration-free periods each day of work.
- 6. Grip tool as lightly as possible (while using both hands and keeping safe control of it). Let the tool do the work.
- 7. To reduce vibration, maintain the tool as explained in this manual. If any

abnormal vibration occurs, stop use immediately.



Extension Cords

Note: Extension cords must not be used with this item's charger.

Symbology

	Double Insulated
	Canadian Standards Association
(UL)	Underwriters Laboratories, Inc.
V~	Volts Alternating Current
A	Amperes
n ₀ xxxx/min.	No Load Revolutions per Minute (RPM)

FUNCTIONAL DESCRIPTION

Specifications

Battery Type	NiCd / 18V
Chuck Capacity/ Type	3/8" / Keyless
Speed	0-900 RPM
Torque Settings	24 (Forward and Reverse)

INITIAL TOOL SET UP/ ASSEMBLY



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

UNPACKING

When unpacking, make sure the item is intact and undamaged. If parts are missing or broken, call Harbor Freight Tools at 1-800-444-3353.

INSTRUCTIONS FOR PUTTING INTO USE



Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

AWARNING

TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL
OPERATION: Turn Tool off
and remove Battery Pack
before assembling or making
any adjustments to the tool.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Functions



OPERATING INSTRUCTIONS



Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Inspect tool before use, looking for damaged, loose, and missing parts. If any problems

are found, do not use tool until repaired.

Tool Set Up

AWARNING

TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL
OPERATION: Turn tool off and
remove Battery Pack before
performing any inspection,
maintenance, or cleaning
procedures.

TO PREVENT SERIOUS
INJURY: Do not adjust or
tamper with any control or
component in a way not
specifically explained within
manual. Improper adjustment
can result in tool failure or
other serious hazards.

Charging

- 1. Please refer to the Charger manual for important safety warnings and proper instructions on charging the Battery Pack (40).
- WARNING! Do NOT use a different Charger or Battery to power this Drill.

General Operating Instructions

- Note: When tool is not being used or when battery, drills, or screwdriver bits are being attached or removed, slide Direction Selector (38) to its mid-position to lock Trigger.
- Note: To change direction of rotation, ALWAYS release Trigger allowing motor to come to complete stop first.
- 3. This Drill is designed to accept up to 3/8" shank size standard drill bits, as

- well as hex shank screwdriver bits and bit holder adapters. Do not use larger size drill bits as damage to gears/motor may result. Always use a drill bit that is designed for specific drilling job
- 4. Slide Direction Selector (38) to its mid-position. While holding ring behind collar of Chuck (2) with one hand, rotate collar counterclockwise to open jaws. Insert shank of drill bit or hex shank of bit/adapter into Chuck. Turn collar clockwise to hand tighten (do not use pliers.)
- Turn Torque Selector (6) to the desired setting and then slide charged battery pack onto base of tool until locked into position. Gently pull on battery to ensure that it is locked securely. Slide Direction Selector to right for drilling / fastening or to left for reversing.
- 6. Place one hand over top of housing for greater tool stability. With other hand grip handle and gently squeeze Trigger to activate motor. Use Cylindrical Vial Level (45) at rear top-side and Circular Vial Level (46) on back of the housing as alignment guides.
- 7. Do not force bit. Excessive force will damage tip and lead to tool failure.
- If drill bit becomes stuck, immediately release Trigger allowing tool to come to complete stop. Slide Direction Selector to left to its reverse position and squeeze Trigger.
- To prevent accident and injuries, when not in use, remove the attachment and the battery pack from the tool.

 Note: Ni-Cd BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY. Do not short, incinerate or open Battery Pack.

MAINTENANCE AND SERVICING



Procedures not specifically explained in this manual must be performed only by a qualified technician.

AWARNING

TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL
OPERATION: Turn off tool and
remove Battery before
performing any inspection,
maintenance, or cleaning
procedures.

TO PREVENT SERIOUS
INJURY FROM TOOL
FAILURE: Do not use
damaged equipment. If
abnormal noise or vibration
occurs, have the problem
corrected before further use.

Cleaning, Maintenance, and Lubrication

- BEFORE EACH USE, inspect the general condition of the tool. Check for loose hardware, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
- 2. **AFTER USE**, wipe external surfaces of the tool with clean cloth.
- 3. When storing, always store Impact Wrench in clean, dry and safe location out of reach of children.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start.	Battery not charged.	Charge Battery.
	Selector Ring in drilling position.	Slide Selector Ring into hammering position.
available.		
Performance	Accessory dull or damaged.	Keep accessories sharp. Replace as needed.
decreases over time.		
Excessive noise or	Internal damage or wear.	Have technician service tool.
rattling.	_	
Overheating.	Forcing tool to work too fast.	Allow tool to work at its own rate.
		2. Keep cutting accessories sharp. Replace
	2. Accessory dull or damaged.	as needed.
		3. Wear ANSI-approved safety goggles and
	3. Blocked motor housing vents.	NIOSH-approved dust mask/respirator while
		blowing dust out of motor using compressed
		air.



Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.

PARTS LIST

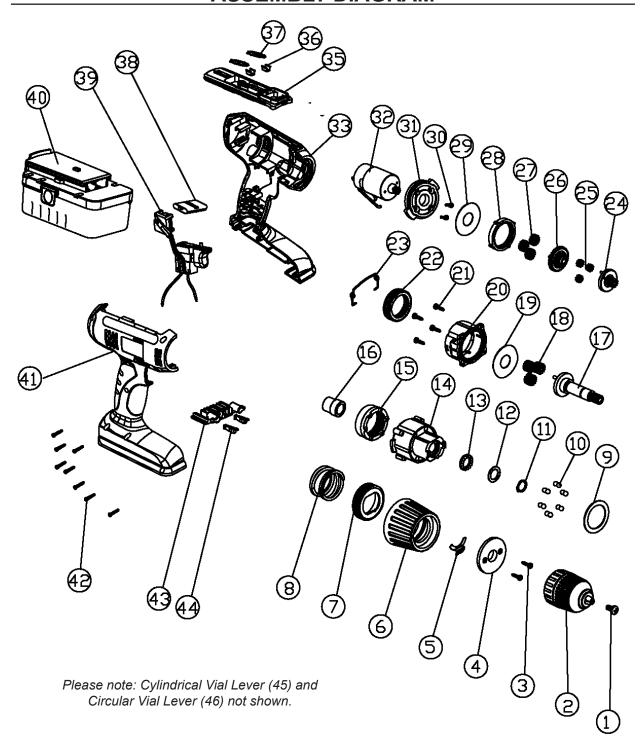
Part	Description	Q'ty
1	Chuck screw	1
2	Chuck	1
3	Tapping screw	2
4	Compressing plate	1
5	Positioning spring	1
6	Torque Selector	1
7	Inner threaded ring	1
8	Spring	1
9	Washer	1
10	Ball Ø5	12
11	Snap ring	1
12	Washer	2
13	Ball Ø3	15
14	Gear box	1
15	Gearing ring	1
16	Shaft coat	1
17	Shaft	1
18	Planet gear	3
19	Washer	1
20	Governor box	1
21	Screw	4
22	Removable gear ring	1
23	Lever	1

Part	Description	Q'ty
24	Planet bracket	1
25	Planet gear	3
26	Planet bracket	1
27	Planet gear	3
28	Fixed gear ring	1
29	Washer	1
30	Screw	2
31	Motor flange	1
32	Motor	1
33	Left Housing	1
35	Decoration plate	1
36	Bit holder	2
37	Driver bit	2
38	Direction Selector	1
39	Trigger	1
40	Battery pack	1
41	Right Housing	1
42	Tapping screw ST2.9x16	8
43	Contact plate	1
44	Contact strip	2
45	Cylindrical Vial Lever	1
46	Circular Vial Lever	1

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

ASSEMBLY DIAGRAM



Record Product's Serial Number Here:

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESS-LY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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